



## Professional Communications - Enabling Business Objectives

### RadioComms Connect 2011 Presentation

November, 2011 – Ashley Marshall

---

## **Key Statistics**

- \$6Bn Revenue
- Serving customers in 150 countries
- Harris' APAC HQ – Brisbane Aust
- 16,000 employees (7,000 engineers & scientists)
- Dedicated to developing best-in-class assured communications® products, systems & services.



**HARRIS**<sup>®</sup>

**Critical Missions, Critical Communications...**  
From battlefield to city streets, trust Harris.

- 1. Global Transformation - Drivers for change**
  
- 2. Comparisons: -**
  - 1. Battlefield Vs. Public Safety**
  - 2. Battlefield Vs. Oil & Gas**
  
- 3. Global Trends - Update**
  
- 4. Future**

- Wireless Communications Industry-Wide change
  - Defense
  - National Intelligence
  - Civilian Governance
  - International Government
  - Public Safety & Public Service
  - Mining, Energy & Maritime
  - Broadcast & New Media
  - Healthcare
  - Enterprise, Transportation & Logistics

- Expectations of citizens are growing
- Expectations of companies & investors growing
- Economic conditions likely to remain challenging
- Advances in Technology – Wireless Broadband
- Network-edge boundaries being redefined

- Social media technologies
- Cyber crime
- Terrorism & the effects
- Increasing frequency of natural disasters
- Personal culpability

- Battlefield – System of Systems
- Battlefield – Dominant Battle-space Knowledge
- Battlefield Vs. Public Safety
- Battlefield Vs. Oil & Gas

- 
- Military Commander functions: - C<sup>4</sup>ISR
    - To see
    - To Tell
    - To Act
  - Command, Control, Communications, Computers Intelligence, Surveillance & Recognition
  - Dominant Battle-space Knowledge

- Uncanny similarities
- Full spectrum threats – adaptive responses
- Software defined radios
- Tactical & Public Safety Interoperability
- Command, Control, Communications, Computers  
Intelligence, Surveillance & Recognition

- Dependable Communications Solutions
- Asset & Personnel Tracking
- Intrinsically Safe
- Noise Suppression Technology
- Secure, Integrated High-Capacity Voice & Data
- Smart Grids - New Challenges, New Solutions

- Veracious global data demand > 717 Tbps
- 2.4 Mbps per person versus 28 Kbps in 2000
- LTE has very high spectral efficiency (4x 3G)
- Now 70+ LTE networks worldwide

- US homeland security narrow band mandate driving P25 growth in USA
- Trends in architecture changes:
  - Software defined radios
  - IP based network architecture
- ESOs (Police) using LTE for broadband
  - 300,000 UK police using PDA based applications over 3.5G or 4G
  - Military - Battlefield Cellular solutions
- Video & C4ISR applications driving LTE demand

- Adoption of LTE accelerating
  - US Federal government grant and policy support
  - UK broadband applications via smart PDA
- Rugged user terminals required
  - LTE-based radios coming
  - Hybrid LTE/P25 radios planned

- Streaming Video
- Secure Data Access
- Automated Data Collection
- Sensor Networks
- Intelligent Transportation Networks
- PTT Voice



**HARRIS**®

**assuredcommunications**®